

CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:
What is claimed is:

1. (Withdrawn) A storm water detention system comprising a basin sized and positioned to accumulate storm water, an outlet, and a flow limiting structure impeding flow of water out of the basin through the outlet, the flow limiting inlet structure comprising:
 - a set of two or more baffles adapted to hinder floating surface contaminants into the outlet;
 - a discharge riser having openings sized or spaced such that a discharge flow rate remains substantially independent of the water depth;
 - wherein each of the baffles has a upper edge and a lower edge;
 - the upper edge defines a upper opening;
 - the lower edge defines a lower opening; and
 - wherein each baffle is coupled to the riser such that water is able to flow over the upper edge into the riser through the upper opening.
2. (Withdrawn) The system of claim 1 wherein the set of two or more baffles are a tiered set of nested baffles wherein:
 - each baffle that is nested within another baffle is positioned at a lower height that the baffle it is nested within;
 - the baffles of the set of baffles overlap each other;
 - the difference in height between the upper edge of any baffle that is nested within another baffle and the lower edge of the baffle it is nested within is at least 1/2 inch; and
 - wherein the baffles have relative spacing such that the discharge rate remains substantially independent of the water depth.
3. (Currently Amended) A flow limiting inlet structure comprising:
 - a tiered set of one or more baffles coupled to an outlet; wherein each of the baffles has a upper edge and a lower edge wherein each baffle surrounds a discharge riser, the

set adapted to inhibit flow of surface materials through the baffle set, wherein the inlet area of the baffle set increases as fluid depth increases;

wherein the upper edge defines a first opening and the lower edge defines a second opening; and

wherein each baffle is sized or configured such that a discharge rate of fluid through the outlet remains substantially autonomous of water depth about the inlet structure such that the discharge rate of fluid ~~is substantially constant regardless of water depth~~ and further wherein a plurality of holes are provided in the structure to allow for discharge of the fluid into the outlet.

4. (Previously Amended) A flow limiting inlet structure comprising a discharge riser incorporating a plurality of holes thereon wherein the riser is surrounded by a tiered set of nested baffles wherein an inlet area created by the nested baffles increases as fluid depth increases, and at least one of the set of nested baffles having a upper edge defining a upper opening allowing water to flow through and into the discharge riser and subsequently into the holes disposed on the riser.
5. (Original) The structure of claim 4 wherein each baffle that is nested within another baffle is positioned at a lower height that the baffle it is nested within.
6. (Canceled)
7. (Previously amended) The structure of claim 4 wherein the difference in height between the upper edge of any baffle that is nested within another baffle and a lower edge of the baffle it is nested within is at least 1/2 inch.
8. (Previously presented) The structure of claim 4 wherein a lower inlet area of a baffle of the set of baffles is less than an non-overflow inlet area of the discharge riser.
9. (Previously presented) The structure of claim 4 wherein a lower inlet area of a baffle of the set of baffles is less than half an non-overflow inlet area of the discharge riser.

10. (Previously presented) The structure of claim 4 wherein a lower inlet area of a baffle of the set of baffles is less than one third an non-overflow inlet area of the discharge riser.
11. (Original) The structure of claim 4 wherein the number of baffles in the set of baffles is at least X where X is one of 2, 3, and 4.
12. (Previously presented) The structure of claim 4 wherein each baffle is sized or configured such that a discharge rate through an outlet remains substantially independent of the water depth.
13. (Previously presented) The structure of claim 4 wherein the discharge riser has openings sized or positioned such that a discharge rate through a outlet remains substantially independent of the water depth.
14. (Currently Amended) A flow limiting inlet structure comprising a discharge riser surrounded by a tiered set of nested baffles wherein an inlet area of the set increases as fluid depth increases, and at least one baffle having a upper edge defining a upper opening allowing water to flow through and further wherein each baffle is sized or configured such that a discharge rate through an outlet is controlled and complete settlement of suspended sediments is achieved. ~~remains substantially independent of the water depth.~~
15. (Currently Amended) A flow limiting inlet structure comprising a discharge riser surrounded by a tiered set of nested baffles wherein an inlet area of the set increases as fluid depth increases, and at least one baffle having a upper edge defining a upper opening allowing water to flow through and further wherein the discharge riser has openings sized or positioned such that a discharge rate through a outlet is controlled and complete settlement of suspended sediments is achieved ~~remains substantially independent of the water depth.~~